### COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT OR CIP APPLICATION)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: PROCESS FOR HEAT TREATING CERAMICS AND ARTICLES OF MANUFACTURE MADE THEREBY

the specification of which: (complete (a), (b) or (c) for type of application)

			REG	ULAR OR DESIGN API	PLICATION	
(a) (b)	[X] []		ed hereto. on a	s Application Serial No	and was am	ended on
			PCT FILED AP	PLICATION ENTERING	NATIONAL STAGE	
(c)	[]	was desc amended		d in International Applica —·	tion No filed	onand a
		ACKI	NOWLEDGMENT	OF REVIEW OF PAPE	RS AND DUTY OF CA	ANDOR
				understand the content ny amendment referred t		ed specification,
				rmation which is material real Regulations. §1.56(		this application in
	[] In (	compliance	with this duty the	ere is attached an inform	ation disclosure staten	nent. 37 CFR 1.97.
				PRIORITY CLAIM	1	
for p	atent o	or inventor'	s certificate listed	under Title 35, United States and have also ide filing date before that of	entified below any fore	ign application for
				(complete (d) or (e	))	
(d)	[ X]		applications have			
(e)	[ ]	such app	lications have bee	en filed as follows:		
		EARLI		PPLICATION(S), IF AN' OR DESIGN) PRIOR TO		ONTHS
_	Cou	ntry	Application No.	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed
<del>-</del>		ALL F		ATION(S), IF ANY FILE		CHTNC
			(0 100011115110	Date of Filing	Date of Issue	·
	Cou	ntry	Application No.	(day, month, year)	(day, month, year)	Priority Claimed

U.Ş.A.

#### CONTINUATION-IN-PART

(complete this part only if this is a continuation-in-part application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code,

09/393,004	September 9, 19	99 Pending	
(Application Serial No.)	(Filing Date)	(Status)	(patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)	(patented, pending, abandoned)
	POWER	OF ATTORNEY	
As a named inventor, I hereband transact all business in table (List name and registration in	he Patent and Trader	•	r agent(s) to prosecute this application and therewith.
John J. Prizz Larry R. Mer Stanislav An James G. Po Stephen T. E John M. Hall Thomas W. Thomas Lizz	enan Itolin orcelli Belsheim an Cole	Registration Registration Registration Registration Registration Registration Registration	No. 33,423 No. 34,979 No. 33,757 No. 28,688 No. 35,534 No. 28,290
SEND CORRESPO	NDENCE TO:	DIRECT TELEPI	HONE CALLS TO:
John J. Prizzi Kennametal Inc. P. O. Box 231 Latrobe, PA 156		John J. Prizz (724) 539-53	
made on information and bel the knowledge that willful fals	ief are believed to be se statements and the Title 18 of the United application or any par	true; and further that like so made are postates Code and that tent issued thereon.	e are true and that all statements at these statements were made with unishable by fine or imprisonment, o at such willful false statements may
Date	Country	of Citizenship	U.S.A.
Residence Gree	<del></del> ·	,	
	eters Road, Greensb		

\_\_\_\_\_ Country of Citizenship \_\_\_

Post Office Address 306 Shady Oak Drive, Johnstown, PA 15905

Inventor's signature \_\_\_\_

Residence <u>Johnstown, Pennsylvania 15905</u>

Date \_\_\_\_\_

[ X	ŋ	Signature for third and subsequent joint inventors.  Number of pages added _1
[	)	Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
	]	Signature for inventor who refuses to sign or cannot be reached by person authorized under 35 CFR 1.47. Number of pages added

Full name of third joint is	nventor, if any $\_$	Chuck E. Lipniskis	
Inventor's signature			
Date		Country of Citizenship	U.S.A.
Post Office Address	3107 Attleboro	Place, Greensburg, PA	15601
Full name of fourth joint	inventor, if any	Frank B. Battaglia	
Inventor's signature	Freh	B Fellengers	
Date		Country of Citizenship	U.S.A.
• •		•	
Post Office Address	R. D. 1, Box 36	6D, Latrobe, PA 15650	
Full name of fifth joint in	ventor, if any	<u> </u>	ALL ANDRONE CONTROL OF
Inventor's signature			
Date		Country of Citizenship	U.S.A.
Residence			
Post Office Address			
Full name of sixth joint in	nventor, if any _		
Inventor's signature			
			U.S.A.
Full name of seventh join	nt inventor, if an	У	
Inventor's signature			
Date		Country of Citizenship	U.S.A.
Post Office Address			

Priority Claimed

#### COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT OR CIP APPLICATION)

As a below named inventor, I hereby declare that:

amended on

(a)

(b)

(c)

[X]

[]

Country

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: PROCESS FOR HEAT TREATING CERAMICS AND ARTICLES OF MANUFACTURE MADE THEREBY

REGULAR OR DESIGN APPLICATION

the specification of which: (complete (a), (b) or (c) for type of application)

is attached hereto. was filed on	as Application Serial No	_ and was amended on	
PCT FILE	D APPLICATION ENTERING NATI	ONAL STAGE	
was described and cla	aimed in International Application No	o filed on	and a

#### ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations. §1.56(a).

[ ] In compliance with this duty there is attached an information disclosure statement. 37 CFR 1.97.

#### PRIORITY CLAIM

claim foreign priority henefits under Title 35. United States Code \$119 of any foreign application(s) fo pa ned.

for p	atent (	or invent	or's certificate listed be	elow and have also ide	entified below any foreign the application on which	gn application for
				(complete (d) or (e)	))	
(d)	[X]	no suct	n applications have be	en filed.		
(e)	[ ]	such ag	oplications have been	filed as follows:		
		EAR		PLICATION(S), IF ANY R DESIGN) PRIOR TO	Y FILED WITHIN 12 M SAID APPLICATION	ONTHS
	Cou	ıntry	Application No.	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claime
		ALL		TION(S), IF ANY FILE DESIGN) PRIOR TO	D MORE THAN 12 MC SAID APPLICATION	ONTHS
				Date of Filing	Date of Issue	

Application No. (day, month, year) (day, month, year)

### **CONTINUATION-IN-PART**

(complete this part only if this is a continuation-in-part application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Registrations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Analization Costal No.)	September 9, 199	99 Pending	
(Application Serial No.)	(Filing Date)	(Status)	(patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)	(patented, pending, abandoned)
	POWER	OF ATTORNEY	
As a named inventor, I here and transact all business in (List name and registration r	the Patent and Traden		r agent(s) to prosecute this application ed therewith.
John J. Priz	<b>z</b> i	Registration	No. 29,970
Larry R. Me	enan	Registration	
Stanislav Ar		Registration	
James G. P		Registration	
Stephen T. I		Registration	
John M. Hai Thomas W.		Registration Registration	
Thomas Liz		Registration	
SEND CORRESPO	NDENCE TO:	DIRECT TELEP	HONE CALLS TO:
John J. Prizzi		John J. Prizz	· ?j
Kennametal Inc.		(724) 539-53	
P. O. Box 231		. ,	
Latrobe, PA 156	550		
	monto mada hasain a		
the knowledge that willful fals both, under Section 1001 of eopardize the validity of the	ief are believed to be a se statements and the Title 18 of the United S application or any pate	true; and further that like so made are postates Code and that issued thereon.	at these statements were made with unishable by fine or imprisonment, or at such willful false statements may
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Post Office Address 306 Shady Oak Drive, Johnstown, PA 15905

[	X]	Signature for third and subsequent joint inventors.  Number of pages added _1
[	]	Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
ĺ	]	Signature for inventor who refuses to sign or cannot be reached by person authorized under 35 CFR 1.47. Number of pages added

Full name of third joint	t inventor, if any	Chuck E. Lipniskis	**	· · · · · · · · · · · · · · · · · · ·
Inventor's signature				
		Country of Citizenship		
Residence	Greensburg, Per	nsylvania 15601	- · · · · · · · · · · · · · · · · · · ·	
		lace, Greensburg, PA		•
	··			
Full name of fourth join	nt inventor, if any _	Frank B. Battaglia		
Inventor's signature				
Date		Country of Citizenship	U.S.A.	
		vania 15650		
		D. Latrobe, PA 15650		
Full name of fifth joint	inventor, if any			
		Country of Citizenship		
Full name of sixth joint	inventor, if any			
		Country of Citizenship		
·				
Full name of seventh jo	oint inventor, if any			
Inventor's signature				
		Country of Citizenship	U.S.A.	

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(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT OR CIP APPLICATION)

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the specification of which: (complete (a), (b) or (c) for type of application)

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h	(=	GU		١ĸ	UK	DES	มเรห	AFF		<b>4</b> I I	U	ч

(a) [X] is attached hereto.	
(b) [ ] was filed on as Application Serial No and was amended on	<del></del> -
PCT FILED APPLICATION ENTERING NATIONAL STAGE	
(c) [ ] was described and claimed in International Application No filed on	and a
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I acknowledge the duty to disclose information which is material to the examination of this application accordance with Title 37, Code of Federal Regulations. §1.56(a).	n in
[ ] In compliance with this duty there is attached an information disclosure statement. 37 CFR	1.97.
PRIORITY CLAIM	
I hereby claim foreign priority benefits under Title 35, United States Code §119 of any foreign applic for patent or inventor's certificate listed below and have also identified below any foreign application patent or inventor's certificate having a filing date before that of the application on which priority is cl	for
(complete (d) or (e))	
(d) [X] no such applications have been filed.	
(e) [ ] such applications have been filed as follows:	•
EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION	
Date of Filing Date of Issue Country Application No. (day, month, year) (day, month, year) Priority Cla	med
ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION	
Date of Filing Date of Issue  Country Application No. (day, month, year) (day, month, year) Priority Cla	med_

### **CONTINUATION-IN-PART**

(complete this part only if this is a continuation-in-part application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Registrations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

09/393,004	September 9, 19	99 Pending	
(Application Serial No.		(Status)	(patented, pending, abandoned)
(Application Serial No.	.) (Filing Date)	(Status)	(patented, pending, abandoned)
( +	·	OF ATTORNEY	(p
As a named inventor			or agent(s) to prosecute this application
	ess in the Patent and Trader		
John .	J. Prizzi	Registration	No. 29,970
•	R. Meenan	Registration	
	slav Antolin	Registration	
	s G. Porcelli	Registration	
	en T. Belsheim M. Halan	Registration	
	as W. Cole	Registration Registration	
	as Lizzi	Registration	
SEND CORRE	ESPONDENCE TO:	DIRECT TELEP	HONE CALLS TO:
John J. Pr	-iz <b>z</b> i	John J. Priz	zi
Kennamet	tal Inc.	(724) 539-53	331
P. O. Box			
Latraha D	PA 15650		
Latrope, P			
I hereby declare that all made on information at the knowledge that will both, under Section 10	ind belief are believed to be Iful false statements and the	true; and further the like so made are p States Code and the	ge are true and that all statements at these statements were made with bunishable by fine or imprisonment, or at such willful false statements may
I hereby declare that all made on information at the knowledge that will both, under Section 10 jeopardize the validity of Full name of sole or first	and belief are believed to be lful false statements and the 201 of Title 18 of the United of the application or any patest inventor Pankaj K. Me	true; and further the like so made are postates Code and the ent issued thereon.	at these statements were made with bunishable by fine or imprisonment, or at such willful false statements may
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Johnstown, Pennsylvania 15905

306 Shady Oak Drive, Johnstown, PA 15905

Residence\_

Post Office Address

[	X]	Signature for third and subsequent joint inventors.  Number of pages added _1
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Full name of third joint	inventor, if anyChuck	E. Lipniskis		
Inventor's signature _		•		
	Countr		U.S.A.	
	Greensburg, Pennsylva			
Post Office Address _	3107 Attleboro Place, 0	Breensburg, PA	15601	····
	<u> </u>	Company of the State of the Sta		
Full name of fourth joir	nt inventor, if any <u>Fran</u>	k B. Battaglia		
Inventor's signature				
	Countr			
Residence	Latrobe, Pennsylvania	15650		
	R. D. 1, Box 366D, Late			
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Full name of fifth joint i	nventor, if any			·
	Countr			
Residence		t		
Full name of sixth joint	inventor, if any	· · · · · · · · · · · · · · · · · · ·		
	Country		U.S.A.	
Full name of seventh jo	int inventor, if any			
Inventor's signature				
	Country		U.S.A.	

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the specification of which: (complete (a), (b) or (c) for type of application)

#### **REGULAR OR DESIGN APPLICATION**

(a)	ſΧΊ	is attach	ed hereto.						
(p)	ij	was filed	on	_ as Application	Serial No	ar	nd was ame	ended on	·
			PCT FILED	APPLICATION	ENTERING	NATIONA	L STAGE		
(c)	[]		cribed and clair	med in Internatio	onal Applica	tion No	filed o	on	_ and as
		ACK	NOWLEDGME	NT OF REVIEW	OF PAPE	RS AND DU	JTY OF CA	NDOR	
				and understand any amendme			ve identified	d specificatio	ın,
				nformation whic ederal Regulation			mination of	this applicati	ion in
[	] in a	complianc	e with this duty	there is attache	d an informa	ation disclo	sure statem	ent. 37 CFF	₹ 1.97.
				PRIOR	RITY CLAIM		-		
for p	atent o	r inventor	's certificate list	ts under Title 35 ed below and h g a filing date be	ave also ide	ntified belo	w any foreig	on applicatio	n for
				(comple	ete (d) or (e)	)			
(d)	[X]	no such	applications hav	ve been filed.					
(e)	[ ]	such app	lications have t	péen filed as fol	lows:				
		EARL		I APPLICATION FOR DESIGN)				ONTHS	
_	Cour	ntry	Application N		of Filing nth, year)	Date o (day, mor		Priority Cl	aimed
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Registrations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing Date) (Status) (patented,	pending, abandoned		999 Pending	September 9, 19	09/393,004
As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to preand transact all business in the Patent and Trademark Office connected therewith.  (List name and registration number)  John J. Prizzi Registration No. 29,970 Larry R. Meenan Registration No. 34,273 Stanislav Antolin Registration No. 34,279 James G. Porcelli Registration No. 33,757 Stephen T. Belsheim Registration No. 28,688 John M. Halan Registration No. 28,688 John M. Halan Registration No. 28,290 Thomas W. Cole Registration No. 35,534 Registration No. 35,534 Registration No. 35,534 Registration No. 35,534 Registration No. 35,252  SEND CORRESPONDENCE TO: DIRECT TELEPHONE CALLS  John J. Prizzi Kennametal Inc. P. O. Box 231 Latrobe, PA 15650  Thereby declare that all statements made herein of my own knowledge are true and made on information and belief are believed to be true; and further that these statements he knowledge that willful false statements and the like so made are punishable by fire tooth, under Section 1001 of Title 18 of the United States Code and that such willful false opardize the validity of the application or any patent issued thereon.  Full name of sole or first inventor Pankaj K. Mehrotra  Inventor's signature Country of Citizenship U.S.A.  Residence Greensburg, Pennsylvania 15601	F =	(patented, pending, a			
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SEND CORRESPONDENCE TO: DIRECT TELEPHONE CALLS  John J. Prizzi Kennametal Inc. (724) 539-5331 P. O. Box 231 Latrobe, PA 15650  hereby declare that all statements made herein of my own knowledge are true and made on information and belief are believed to be true; and further that these statements he knowledge that willful false statements and the like so made are punishable by first both, under Section 1001 of Title 18 of the United States Code and that such willful false pardize the validity of the application or any patent issued thereon.  Full name of sole or first inventor Pankaj K. Mehrotra  Inventor's signature Country of Citizenship U.S.A.  Residence Greensburg, Pennsylvania 15601					
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[	X]	Signature for third and subsequent joint inventors.  Number of pages added _1
[	)	Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
[	}	Signature for inventor who refuses to sign or cannot be reached by person authorized unde 35 CFR 1.47. Number of pages added

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			U.S.A.
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Full name of sixth joint	inventor, if any _	<del></del>	
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Full name of seventh jo	oint inventor, if ar	ny	
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